Service Manual

Audio

1994

NOKIA

IDENT-NO: 5565 9960

IDENT-NO: 5565 5580

HIFI 1400

HIFI 1400 UK

LUXOR

IDENT-NO: 5565 9970

HIFI 1400

Circuit diagrams, P. C. B, spare parts list, electrical alignment.

Safety component!

⚠ This symbol identifies in the circuit diagrams all safety critical parts. Replace only with specified part numbers.

Service and repair work to be performed only in accordance with existing safety regulations!

NOKIA

CONNECTING PEOPLE

6611 90 25 (9445 MOT)

SAFETY CERTIFICATION

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

CAUTION!	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VORSICHT!	UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST. NICHT DEM STRAHL AUSSETZEN.
VARNING!	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.
ADVARSEL!	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDER ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLNING.
VARO!	OVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE. LASERSÄTEILYLLE ÄLÄ KATSO SÄTEESEEN.

3-4. Alignment procedure

* Reference is provided herewith in attachments;
  . Wiring Diagram;
  . Test Point Diagram.

Notes :

1. Details of work stations and work bench setups shall be referred to the section 1. and 2. above. In case further clarification necessary, please refer to our sales personnel.

2. Receiving, IQC, and inspection personnel are again reminded of the necessity of provision of EOS/ESD preventive gears and proper and carefull handling of the units to avoid in-process damages and spoilage which shall be only taken responsibility by customer.

3. Test use discs shall be monitored constantly for its condition and specific characters and purpose of each of different discs.

Please refer to the publications from EIAJ CP-307E and CP-308E.

Also refer to test disc supplier's documents.

As the model of inspection and alignment procedure, we will be assuming the instruments and tools ready for use as following setups;

1. Regulated DC Power Supply ;

2. Oscilloscope 20MHZ (calibrated well);

3. Probe with Attenuation x 10 provided;

4. Normal Disc Diameter 120mm :
   (conforming to RED BOOK Standard.)

3-4-a. Alignment positions and corresponding factors

Our TCD-550/560 series need only one alignment process. This is achieved by fully utilizing the Toshiba's IC TC9236F AUTO-GAIN ADJUSTMENT feature.

The single alingment factor is TRACKING BALANCE. The PCB is provided with four test point to ease this alignment process.

Please check your PCB with following reference;
(Also refer to the attachment Diagram and Drawings.)

	Factors	Symbols	Monitor Point	
1.	TRACKING BALANCE	TBL	VR1 (B100K)	
2.	RF Output/Eye-pattern	RF	Test point TP1	
3.	TRACKING ERROR TRIGGER	TERR	Test point TP2,T5	
4.	TRACKING ERROR SIGNAL	TE	Test point TP3	
5.	REFERENCE VOLTAGE	Vref	Test point TP4	
6.	Ground	GND	GND	
7.	Laser Drive Voltage	LD	CB2, PIN#1	TCD550
	ditto	LD	J124	TCD560

a-1. In stop mode, with power on and disc in,

First verify the Vref voltage by setting the probe ground to GND and Probe end to Vref/TP4 position illustrated in the attachment.

Vref shall be (in DC) ;

Minimum	Typical	Maximum
1.95 v	2.1 v	2.25 v

a-2. In stop mode, with power on and disc in,

Check the PCB's Laser Diode driving circuit by verifying the voltage at the point of Pin No.1 of CB2 illustrated in the attachment, to monitor either in Laser Diode Deterioration of mechanism or PCB failure.

LD CHECK point voltage shall be (in DC);

Minimum	Typical	Maximum
4.5 v	4.7 v	4.8 v

Then subsequently turn the units to PLAY mode, and observe the same LD CHECK point voltage changes to fall in the range of ;

Minimum	Typical	Maximum
4.2 v	4.4 v	4.5 v

If the observation found any abnormal voltage transition on this test point, it is likely that servo-control circuit block has abnormal some faulty construction and finish.

Or it is also likely the mechanism pickup's laser diode is damaged or deteriorated.

a-3. Change the units to PLAY mode
and change probe ground to Vref/TP4 point.
(Probe ground to Vref shall be maintained for following inspection and alignment processes.)

a-4. TRACKING BALANCE

Set the scope to VOLT/DIV = 0.2v, TIME/DIV = 2msec.
Probe to the TE/TP3 point as illustrated.

Carefully adjust the scope GND to centre on GND.

Use the user-designed Function PCB with the CD Control Switches.
By tapping the SKIP(+) Key or SKIP(-) key for a short while , CD Main PCB returns the TRACKING ERROR signal which can be monitored at the designated Testpoint.

Observe the rendered TRACKING ERROR signal and verify the Positive DC level and negative DC level are equal and the deviation shall fall in the range;

Minimum	Typical	Maximum
0 m V	8 mV	16 mV

If not , adjust to maintain the range with carefully moving VR1.
NB: TRACKING ERROR TRIGGER (Testpoint TP2) is provided for another way of the same adjustment for CHECKER JIG use - optional for customers inspection and alignment station setup :

Instead of using customers' function PCB switch for Tracking Error signal monitoring, TRACKING ERROR signal can be generated by shorting the Testpoint TP2 to the CD main PCB's Vref (Testpoint TP4) point for a short while , equivalent Error signal can be monitored. And sometime, this way of alignment may be preferred to obtain the easier and steadier reading and adjustment of Tracking balance.

4. Completion and unit restoration

After the successful completion of inspection and alignment , please restore PCB and mechanism to suitable store or transit condition with same care and provision described above for overall inspection and alignment processes.

Summary

The items herein mentioned shall be referred to other technical data and documents supplied to you separately.
And should you have any query for further details and in another specific circumstances, our sales personnel are pleased to find better suggestion with referencing the matter to our technical staffs and engineers.

CASSETTE L/R BALANCE ALIGNMENT

ITEM	Signal source	Output connection	Mode	Adjustment	Remarks
Head L/R balance adjustment	Insert an 1 KHz -10 dB test tape	VTVM across speaker jack.	Playback	Adjust semi-fixed VR SFR 411R	Adjust for L output = R output.

Note : Repeat adjustment as necessary to minimize tracking error.

TAPE BIAS FREQUENCY ADJUSTMENT

ITEM	Output connection	Mode	Adjustment	Remarks
Tape bias frequency adjustment	Connect a frequency counter across R429L or R429R	Recording	Adjust L40 01. Turn clockwise for lower freq. and vice versa.	Counter should read about 85 KHz

FM RF ALIGNMENT

Signal source	Signal gen.	Alignment indicator	Frequency setting	Adjustment	Remarks
FM signal generator connected to Ext. Ant. terminal.	87.5 MHz	DC meter across TP 3	same as signal gen.	L 3	DC 2.0 v
	108 MHz			---	DC 7.8 v
	Repeat adjustment as necessary to obtain frequency range				
	90 MHz	VTVM across speaker jack	same as signal gen.	L 2	Adjust for max. output
	106 MHz			TC 1	

Note : Repeat adjustments as necessary to minimize tracking error.

FM MPX FILTER ALIGNMENT

Signal source	Signal gen.	Alignment indicator	Frequency setting	Adjustment	Remarks
FM IF sweep generator connected to FM ext. ant socket	Sweep centered 98 MHz (off modulation)	Oscillocope connected to IF test point	98 MHz	L 12 & L 13	Adjust for mininum output

Note : Repeat adjustments as necessary to minimize tracking error.

CASSETTE MECHANICAL ADJUSTMENT

ITEM	Signal source	Output connection	Mode	Adjustment	Remarks
Head azimuth adjustment	Insert an 12.5 KHz test tape.	VTVM across speaker jack.	Playback	Head azimuth adjustment screw.	Adjust for max. output.

Note : Repeat adjustment as necessary to minimize tracking error.

Note : Repeat adjustment as necessary for maximum sensitivity.

MW/LW RF ALIGNMENT

Signal source	Signal gen.		Alignment indicator	Frequency setting	Adjustment	Remarks
AM signal generator connected to a standard radiating loop.	MW	522 KHz	DC meter across : TP 3 for MW TP 2 for LW	Low end	L 8 for MW L 7 for LW	DC 1.0 v DC 1.8 v
	LW	153 KHz				
	MW	1620 KHz		High end	——	DC 8.3 v DC 5.2 v
	LW	279 KHz				
	Repeat adjustment as necessary to obtain frequency range.					
	MW	603 KHz	VTVM across speaker jack.	Same as signal gen.	L6 for MW L5 for LW	Adjust for maximum output.
	LW	164 KHz				
	MW	1404 KHz			TC2 for MW TC3 for LW	
	LW	272 KHz				

Note : Repeat adjustment as necessary to minimize tracking error.

ALIGNMENT PROCEDURE

Equipment required:

1. AM signal generator
2. FM signal generator
3. VTVM
4. DC volt meter
5. 100 MHz frequency counter
6. Test tapes

Notes:

1. Signal input must be as low as possible to avoid overload and clip. (Use highest sensitivity of output indicator)
2. Volume control at max., balance and tone at mech. centre.
3. Standard modulation is 400 Hz at 30%amplitude for AM,1000Hz at 22.5 KHz deviation for FM.
4. Connect a 8 ohm load across speaker jack.
5. Use only nonmetallic alignment tools to ensure proper alignment.

AM IF ALIGNMENT

Signal source	Signal gen.	Alignment indicator	Frequency setting	Adjustment	Remarks
AM IF sweep generator connected to a standard radiating loop	Sweep centered 450 KHz	Oscilloscope connect to IF test point (pin 14/15 of IC 2.)	Low end	L 10	Adjust for maximum output.

Note : Repeat adjustment as necessary for maximum sensitivity.

FM IF ALIGNMENT

Signal source	Signal gen.	Alignment indicator	Frequency setting	Adjustment	Remarks
FM IF sweep generator connected to FM ext. ant socket	Sweep centered 10.7 MHz	Oscillocope connected to IF test point	Low end	L 4 & L 9	Adjust for maximum amplitude and proper linearity.

Spare Parts List

Cabinette

Position	Partscode	Description
P1	6328 0421	VOLUME KNOB–GREY
P2	6913 4612	LED PCB
P5	6328 0422	BASS/TREBLE KNOB GREY
P6	6328 0423	SUPER BASS KNOB GREY
P7	6466 0238	CD/TUNER LENS–SMOKY
P8	6328 0424	POWER KNOB GREY
P9	6328 0425	FUNCTION KNOB GREY
P10	6328 0426	BAND KNOB GREY
P11	6328 0427	SCAN KNOB GREY
P12	6328 0428	UP KNOB GREY
P14	6328 0429	FM MODE KNOB GREY
P16	6328 0430	DOWN KNOB GREY
P17	6328 0431	PROGRAME KNOB GREY
P18	6328 0432	RAND KNOB GREY
P19	6328 0433	REWIND KNOB GREY
P20	6328 0434	STOP KNOB GREY
P21	6328 0435	PLAY KNOB GREY
P23	6328 0436	FAST FORWARD KNOB GR
P24	6328 0437	DISPLAY KNOB GREY
P25	6418 3464	CD/TUNER FRONT PANEL
P27	6913 4613	TONE PCB
P28	6466 0239	CD DOOR LENS – SMOKY
P29	6134 5374	CD DOOR GREY
P30	7358 4884	CD DOOR SPRING
P31	8681 5342	DOOR LOCK – 1061A
P32	8681 5343	CD PANEL GREY
P36	4112 7585	LEAF SWITCH LSA–1123
P37	8681 5344	SWITCH BRACKET
P38	7525 1433	DUMPER GEAR ASSY
P39	5863 1080	CD MECH ASSY PHILIPS
P39	8681 5369	CD BASE
P42	6913 4614	CD PCB ASSY TCD560P1
P43	3151 7806	MOTOR DRV.RES.RC102–
P44	3686 1173	LCD UTN–H067ENV
P45	3686 1174	LCD SCREEN BLUE
P46	6466 0240	REFLECT LENS MILKY M
P47	8681 5345	LCD HOLDER
P48	6913 4615	DISPLAY PCB
P50	3686 1175	LCD UTN–H069ENV
P54	6913 4616	SOURCE SELECT PCB
P57	6913 4617	PCB TUNER
P58	4131 4330	20 PIN FLAT CABLE DO
P59	6134 5375	CD/TUNER BOTTOM CAB
P60	6273 4063	RUBBER FOOT
P61	6134 5382	CD/TUNER BACK CAB GR
P62	6134 5376	SIDE PANEL W/ GREY

Casette mechanism

P1	6466 0241	CASS DOOR LENS SMOKY
P2	8681 5346	CASS DOOR PANEL GREY
P3	8681 5347	CASS DOOR BRACKET
P4	6134 5377	CASS DOOR GREY
P5	7358 4885	CASS DOOR OPEN SPRIN
P7	6418 3465	CASS/AMP FRONT PANEL
P8	6328 0438	CASS KEY PAD(8) GREY
P9	7358 4886	CASS DOOR EJECT SPRI
P10	4144 8417	HEADPHONE JACK 3,5MM
P11	6466 0242	LED LENS SMOKY
P12	7358 4887	PINCH ROLLER SPRING
P13	5863 1081	DECK MECH TN–1800Z–1
P15	4335 9488	HEAD YK56R–BA405
P27	7548 4281	RF CLUTCH ASSY
P29	7618 4350	RF BELT
P33	6253 4269	T REEL ASSY F
P34	6253 4270	T REEL ASSY R
P36	7525 1434	FF GEAR
P42	4432 9412	MOTOR EG530AD–B2
P48	7618 4351	M BELT
P88	7538 3473	PINCH ROLLER ARM F A
P89	7358 4888	P ARM SPRING
P90	7538 3474	PINCH ROLLER ARM R A
P91	7358 4889	P ARM SPRING

Misc.

P12	6913 4618	DECK KEY PCB
P14	8318 6125	EJECT LEVER – BEND
P17	8318 6126	EJECT LEVER – STRAIG
P18	8318 6127	LEVER BRACKET
P19	6913 4619	DECK CONTROL PCB
P20	6913 4620	R/P PCB
P23	4511 3535	TRANSFORMER EI–66 23
P25	6134 5378	CASS/AMP BOTTOM CAB
P26	6273 4064	RUBBER FOOT – W/ ADH
P27	6913 4621	AMP PCB
P28	6134 5379	CASS/AMP TOP CAB GRE
P29	6134 5380	CASS/AMP BACK CAB GR
P31	6134 5376	SIDE PANEL W/ GREY
P33	4471 9066	AM LOOP ANTENNA COIL
P34	4131 4331	AC LINE CORD W/ PLUG
L01	4543 4058	FM ANT COIL KPO–7986
L02	4543 4060	FM RF COIL KB–7989FM
L03	4543 4059	FM OSC COIL KB–7988A
L04	4543 4061	FM IFT COIL KB–7989S
L05	4543 4057	LW ANT E10U–00023
L06	4471 9067	MW ANT E10U–00026
L07	4543 4056	LW OSC COIL AMO–7983
L08	4543 4054	MW OSC COIL
L10	4543 4055	AM IF COIL AMC–7985S
L11	4543 4063	CHOKE COIL CHD 100UH
L12	4552 6872	MPX FILTER F7G–00003
L13	4552 6872	MPX FILTER F7G–0000
L401	4543 4062	TAPE OSC COIL E10U–0
L402L	4543 4064	CHOKE COIL 20MH
L402R	4543 4064	CHOKE COIL 20MH
CF01	4552 6873	FM CER FILTER SFE10,
CF02	4552 6873	FM CER FILTER SFE10,
CF03	4421 2267	CER RESONATOR CSB–45
CF04	4552 6874	AM CER FILTER SFU450
CF05	4421 2270	CRYSTAL 7,2MHZ
CF401	4421 2266	CER RESONATOR 3,58MH
CF501	4421 2268	CER RESONATOR ZTA–4.
CF601	4421 2269	CER RESONATOR CSB455
R80	3151 7807	FUSIBLE RESISTOR
R127	3151 7807	FUSIBLE RESISTOR
D01	3656 3668	DIODE SVC201 SPA
D02	3656 3668	DIODE SVC201 SPA
D03	3651 1555	DIODE SVC321
D04	3651 1555	DIODE SVC321
D05	3651 1555	DIODE SVC321
D06	3651 1555	DIODE SVC321
D07	3656 0818	DIODE1N 4148
D08	3656 0818	DIODE1N 4148
D09	3656 0818	DIODE1N 4148
D10	3656 0818	DIODE1N 4148
D11	3656 0818	DIODE1N 4148
D12	3656 0818	DIODE1N 4148
D13	3656 0818	DIODE1N 4148
D14	3656 0818	DIODE1N 4148
D15	3656 0818	DIODE1N 4148
D16	3656 0818	DIODE1N 4148
D17	3656 0818	DIODE1N 4148
D18	3656 3085	DIODE MTZ 5,1A
D19	3656 0818	DIODE1N 4148
D20	3656 0818	DIODE1N 4148
D101	3681 1869	LED EL523HD
D102	3681 1868	LED EL103HD
D301	3656 0818	DIODE1N 4148
D302	3656 0818	DIODE1N 4148
D303	3656 3733	DIODE ZENER MTZ13C
D304	3656 0818	DIODE1N 414
D305	3656 3733	DIODE ZENER MTZ13C
D306	3656 3733	DIODE ZENER MTZ13C
D307	3656 3686	DIODE 1N5392
D308	3656 3686	DIODE 1N5392
D309	3656 3686	DIODE 1N5392
D310	3656 3686	DIODE 1N5392
D311	3656 1104	DIODE1N 4002
D312	3656 1104	DIODE1N 4002
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D406	3681 1866	LED EL202HD
D407	3681 1867	LED EL202GD
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D605	3656 3713	DIODE EL–1L1
J29	3656 0818	DIODE1N 4148
Q01	3614 4306	TRANS2SC2839E
Q02	3614 4306	TRANS2SC2839E
Q03	3614 7682	TRANS2SC536–G–NP
Q04	3614 7796	TRANS2SA1318T
Q05	3614 7796	TRANS2SA1318T
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Q07	3614 7796	TRANS2SA1318T
Q08	3614 7682	TRANS2SC536–G–NP
Q09	3614 7682	TRANS2SC536–G–NP
Q10	3614 7796	TRANS2SA1318T
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Q13	3614 7796	TRANS2SA1318T
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Q17	3614 7682	TRANS2SC536–G–NP
Q18	3614 7682	TRANS2SC536–G–NP
Q101	3614 5513	TRANS2SC2274F
Q102	3614 7809	TRANS 2SB544E
Q103	3614 7682	TRANS2SC536–G–NP
Q104	3614 7809	TRANS 2SB544E
Q301	3614 7682	TRANS2SC536–G–NP
Q302	3614 7682	TRANS2SC536–G–NP
Q303	3614 7796	TRANS2SA1318T
Q304	3614 7682	TRANS2SC536–G–NP
Q305	3614 7810	TRANS 2SD1913R
Q306	3614 7682	TRANS2SC536–G–NP
Q307	3614 7682	TRANS2SC536–G–NP
Q308	3614 7796	TRANS2SA1318T
Q309	3614 4945	TRANS2SD 863E
Q310	3614 7796	TRANS2SA1318T
Q311	3614 7682	TRANS2SC536–G–NP
Q312	3614 7809	TRANS 2SB544E
Q401	3614 5513	TRANS2SC2274F
Q402	3614 5513	TRANS2SC2274F
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Q410	3614 7796	TRANS2SA1318T
Q411	3614 7682	TRANS2SC536-G-NP
Q412	3614 7682	TRANS2SC536-G-NP
Q413	3614 7682	TRANS2SC536-G-NP
Q414	3614 7682	TRANS2SC536-G-NP
Q415	3614 7682	TRANS2SC536-G-N
Q416	3614 4945	TRANS2SD 863E
Q417	3614 7809	TRANS 2SB544E
Q418	3614 7809	TRANS 2SB544E
Q419	3614 7796	TRANS2SA1318T
Q501	3614 7796	TRANS2SA1318T
Q502	3614 7796	TRANS2SA1318T
Q503	3614 7796	TRANS2SA1318T
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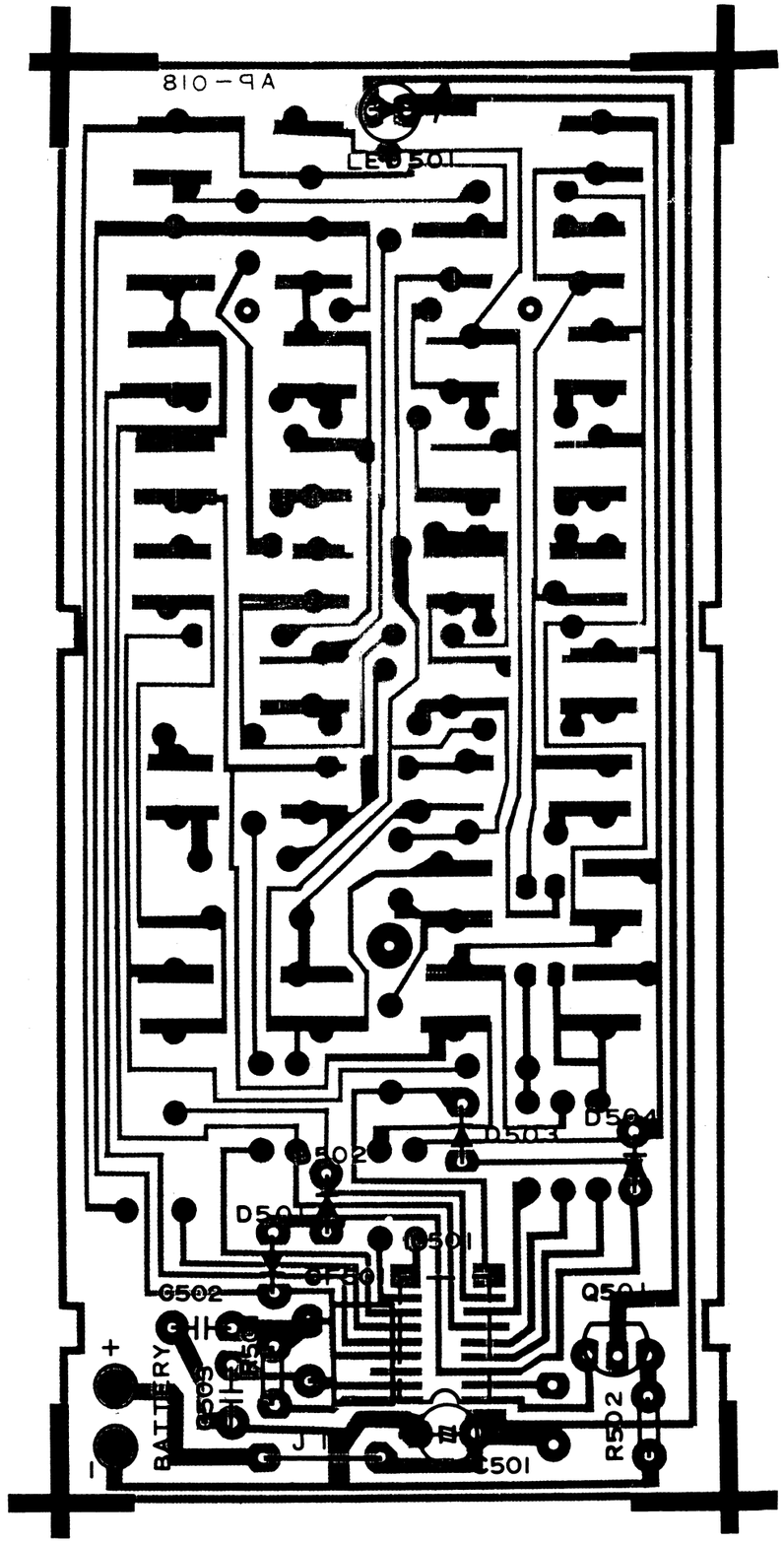
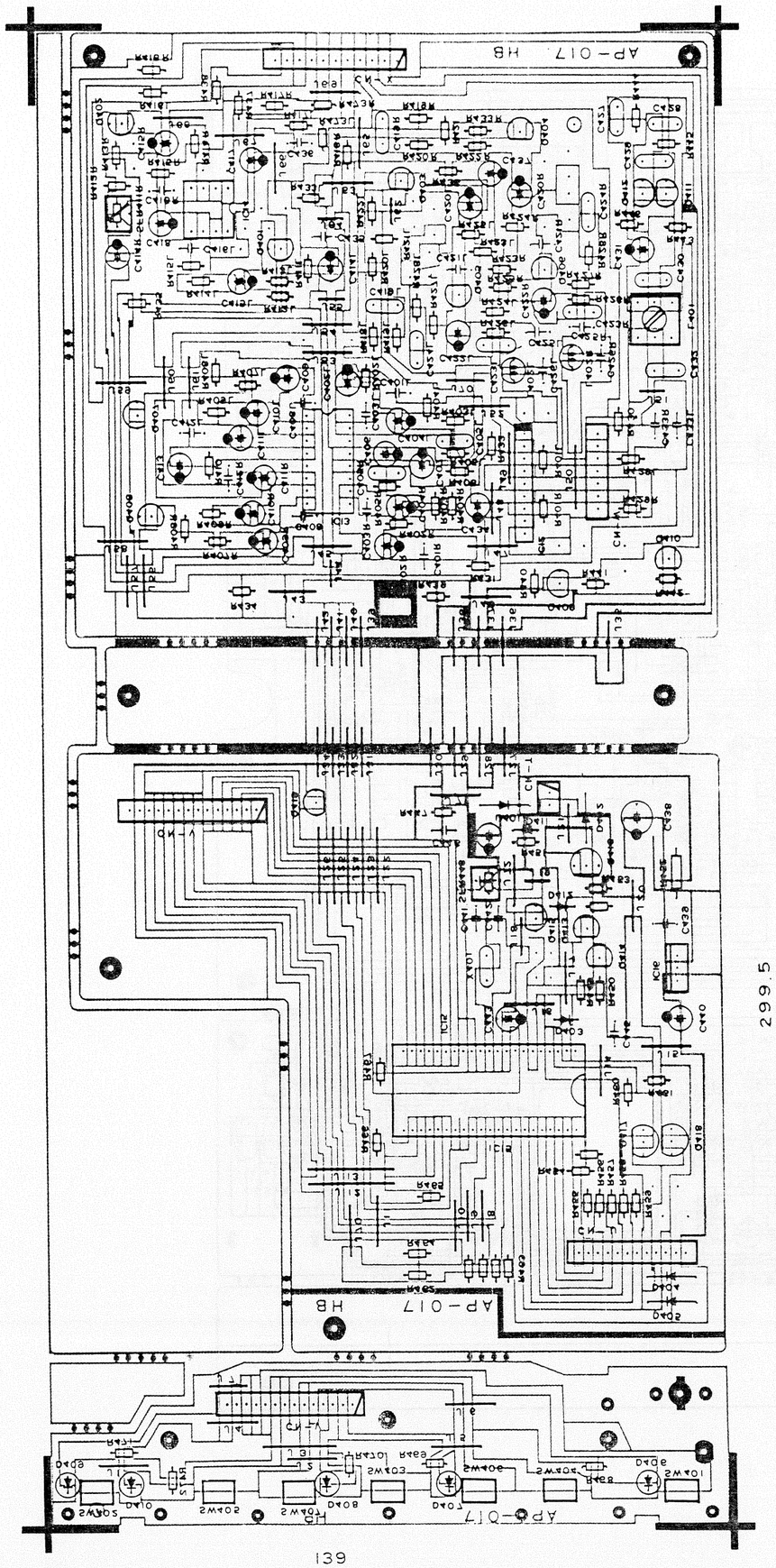
Q506	3614 7796	TRANS2SA1318T
Q601	3614 4448	TRANS2SC3330T,U
IC01	3771 6904	IC TA 7358AP
IC02	3771 6940	IC LA 1851N
IC03	3771 6830	IC TC 9173P
IC04	3771 6938	IC LM 78M05CT
IC05	3771 5425	IC LB 1641
IC06	3771 6831	IC TC 9164N
IC07	3768 9994	IC LA 6458D
IC08	3768 9994	IC LA 6458D
IC09	3768 9994	IC LA 6458D
IC10	3768 9994	IC LA 6458D
IC11	3768 9994	IC LA 6458D
IC12	3771 6107	IC UPC1330HA
IC13	3771 6833	IC TA 8142AP
IC14	3768 9994	IC LA 6458D
IC15	3771 6937	IC OTAKI SDC01
IC16	3768 1776	IC L 7805CV
IC17	3771 6169	IC LA 4282
IC18	3771 6938	IC LM 78M05CT
IC19	3771 6941	IC TC 9309F-089
IC20	3771 6942	IC L 7808CV
IC21	3771 6943	IC TMP 47C820F-N931
IC601	3771 6939	IC TC 9243F
-	4112 7586	PUSH SWITCH 2P2T
-	4112 7585	LEAF SWITCH LSA-1123
-	4112 7587	TACT SWITCH KPT1105A
-	4144 8417	HEADPHONE JACK 3,5MM
-	4144 8418	SPEAKER JACK
-	4144 8419	RCA 4 PIN JACK
-	4144 8420	AM/FM ANT SOCKET
-	3681 1870	REMOTE SENSOR HC-377
-	6134 5381	BATTERY DOOR
-	4311 9573	SPEAKER BOX ASSY
-	4311 9580	LP-BOX CPL LEFT
-	5652 2335	RC HIFI 1400
-	6913 4622	DECK CONNECT PCB
-	6913 4623	HEADPHONE PCB
-	6913 4624	POWER SUPPLY PCB
-	3151 7806	MOTOR DRV.RES.RC102
-	3111 9193	ROTARY VR 10 KB

s-5 remote handset pcb layout

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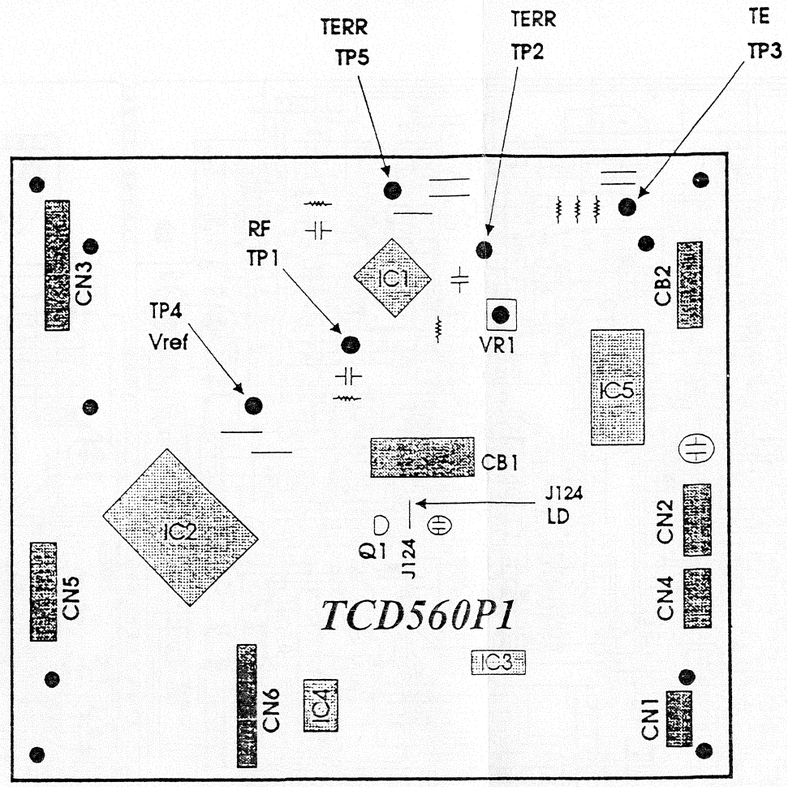
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TERR
TP2
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TP3
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TP1
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CB2
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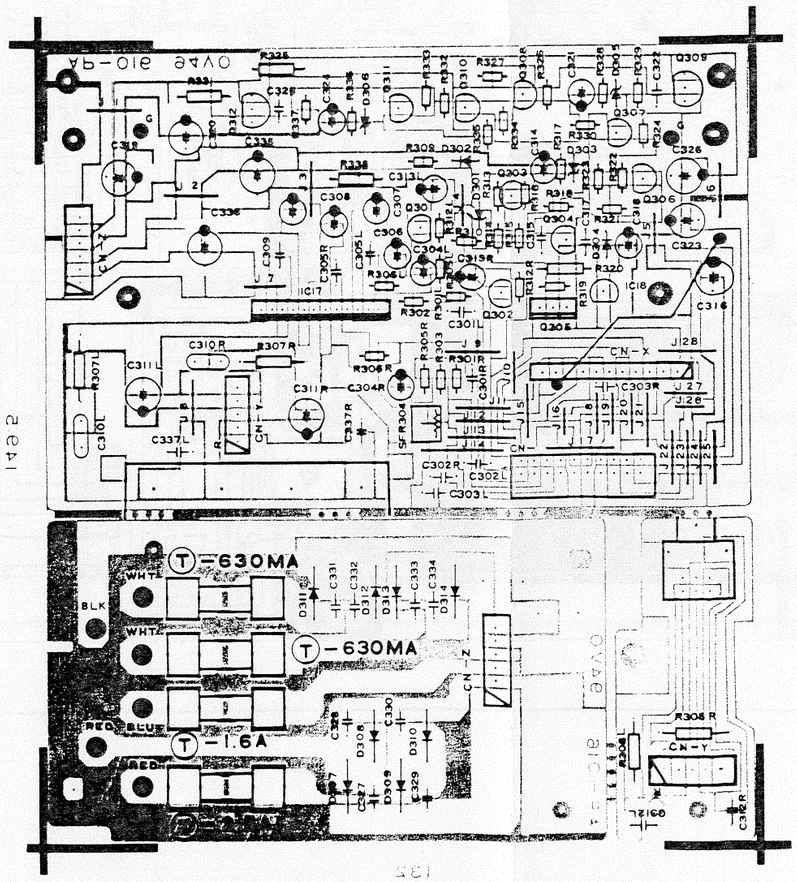
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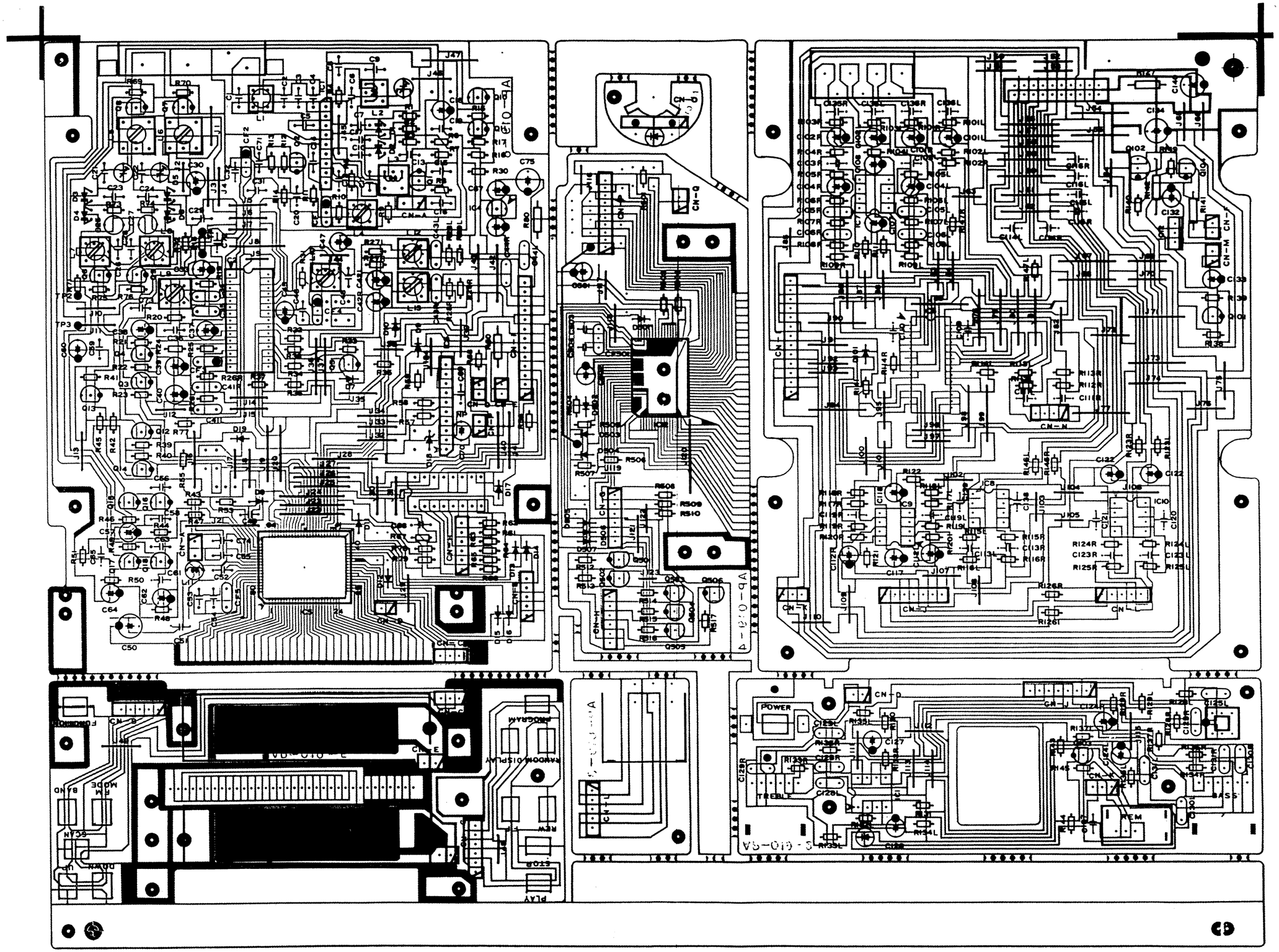
T-630MA
T-630MA
T-1.6A
WHT
BLK
WHT
RED
BLUE
RED



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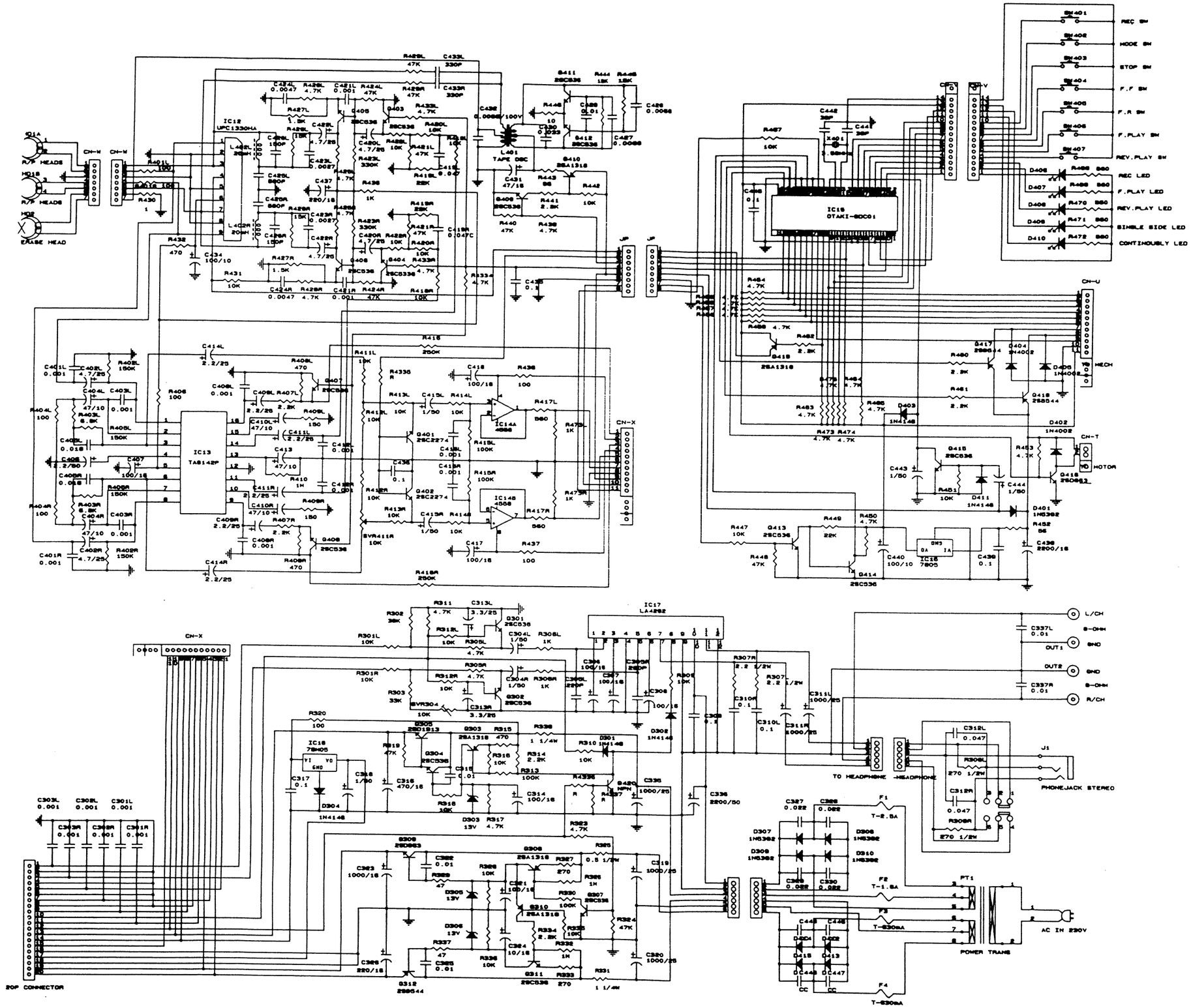
Date	:	February 1993	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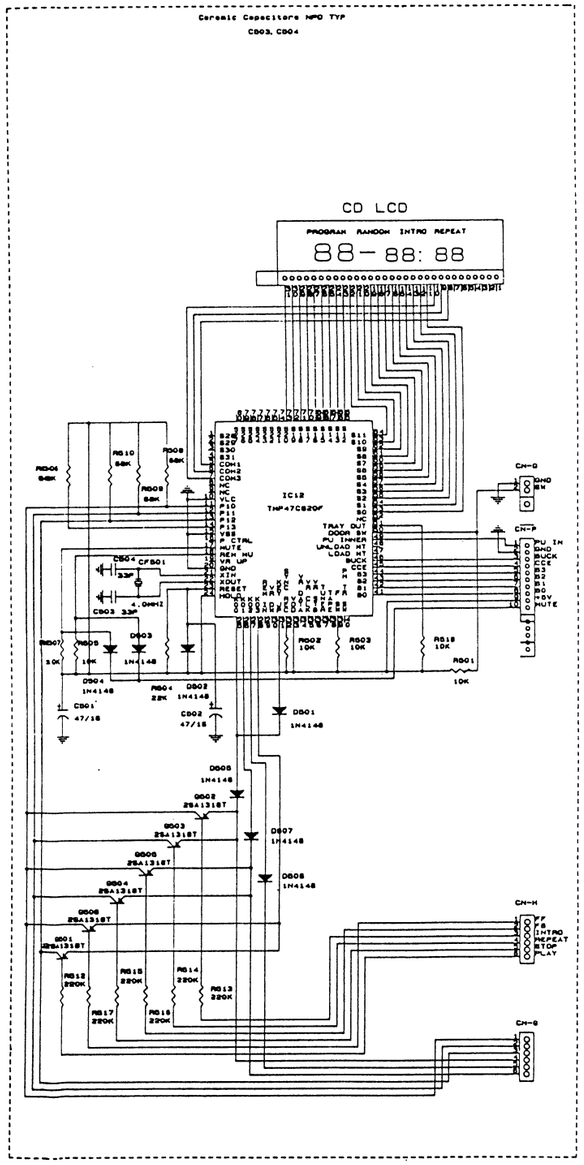
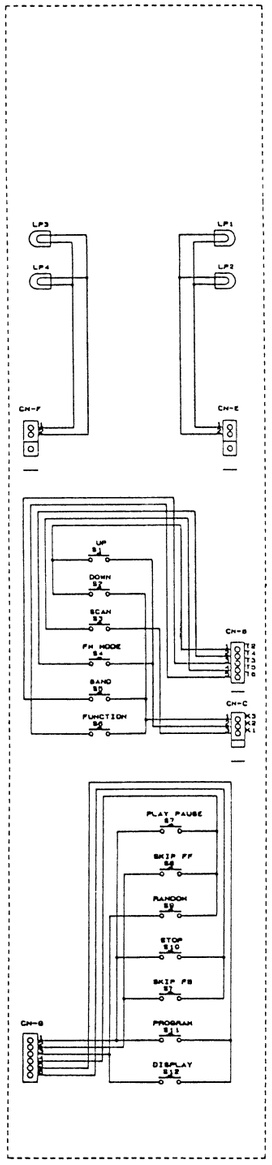
IC13 TA8142P
IC14 4558
IC15 OTAKI-80C01
IC16 7805
IC17 LA4282
IC18 78M05
TAPE DEC
ERASE HEAD
R/P HEADS
R/P HEADS
CN-W
CN-X
CN-U
CN-T
CN-V
REC SW
MODE SW
STOP SW
F.F SW
F.R SW
F.PLAY SW
REV.PLAY SW
REC LED
F.PLAY LED
REV.PLAY LED
SINGLE SIDE LED
CONTINUOUSLY LED
MECH
MOTOR
TO HEADPHONE
HEADPHONE
PHONEJACK STEREO
POWER TRANS
AC IN 230V
20P CONNECTOR
L/CH
R/CH
8-OHM
GND
OUT1
OUT2

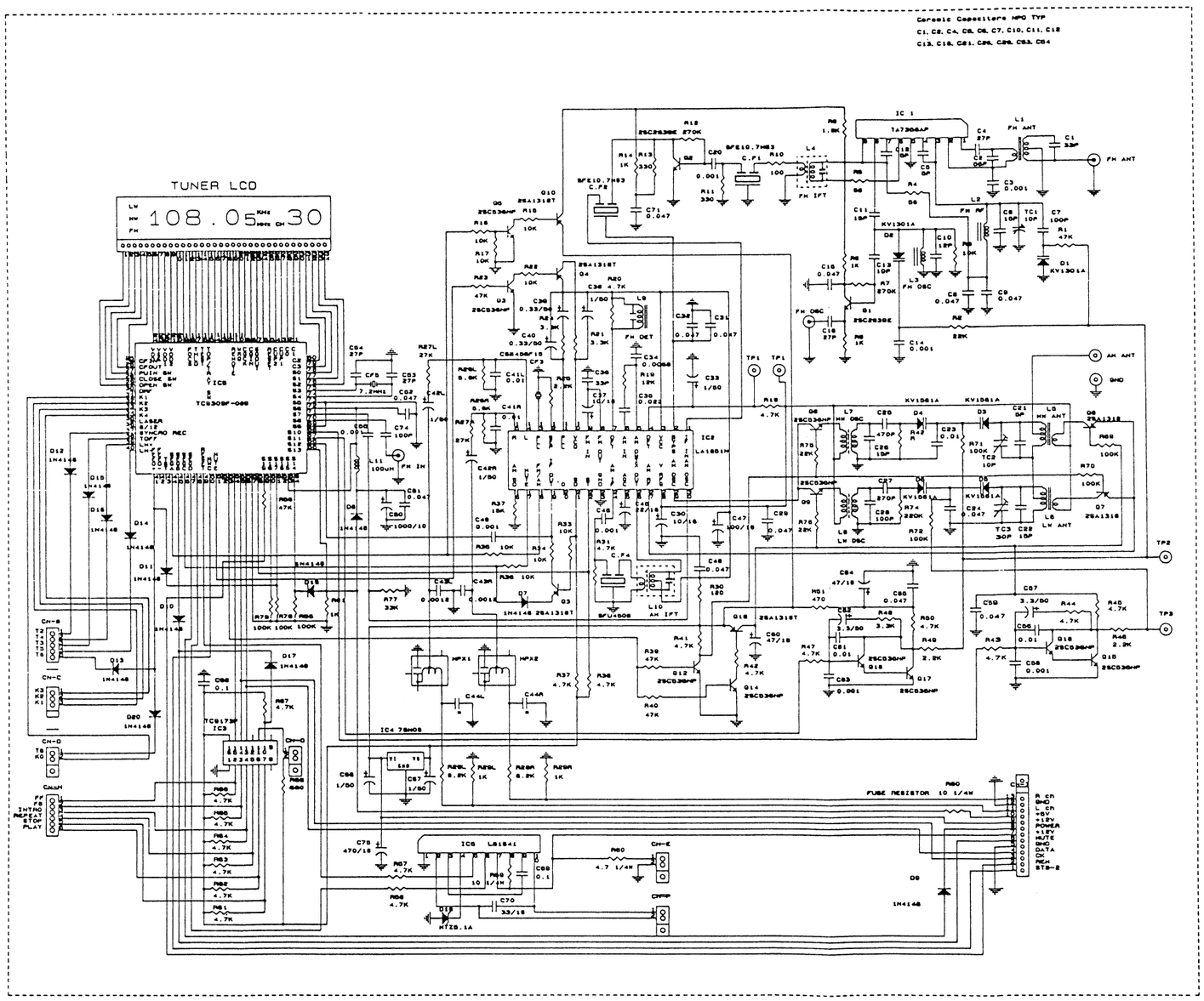
CD CONTROL
AP-019-4



DISPLAY TUNER/CD
AP-019-5



TUNER/CONTROL
AP-019-6



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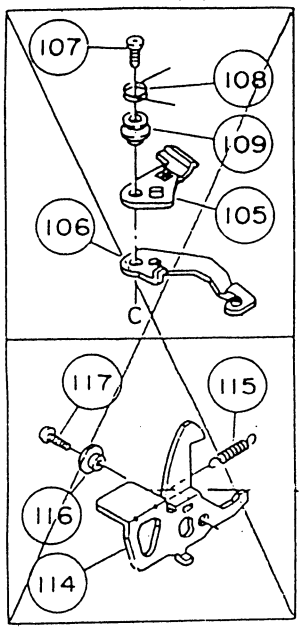

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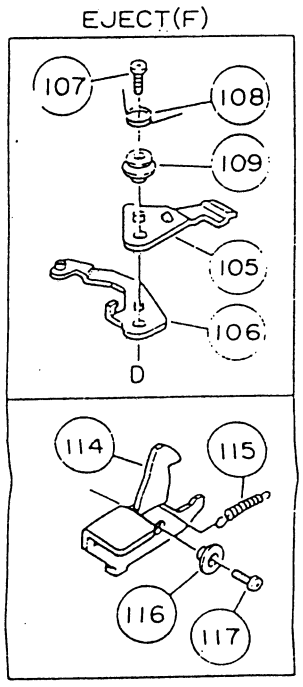

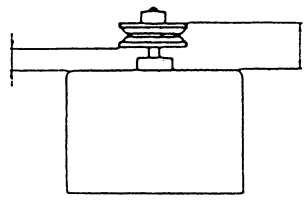

MOTOR PULLEY HEIGHT

PULLEY No.	HEIGHT	
	A	
	B	
	A	
	B	
	A	
	B